BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Muninanjappa Layout in Ward No. 06, Rachenahalli Village Limits.**

							Estimate Cost:		2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	Desilting of Drains								
			2	160.00	0.45	0.35	50.40		
	Berm Cutting								
			2	160.00	1.20	0.25	96.00		
	CC Road		1	160.00	3.50	0.20	112.00		
			1	80.00	3.20	0.20	51.20		
							309.60	90.72	**28087.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
			1	160.00	3.50	0.15	84.00		
			1	80.00	3.20	0.15	38.40		
							122.40	4290.84	**525199.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
3	KSRRB M2600-3: Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, **No. 251 / Item No. 31.3 PWD SR 2013-14**	M							
			16	3.50			56.00		
			8	3.20			25.60		

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							81.60	137.16	**11192.00**
	Basic Rate	127.00							
	Area Weightage @ 8%	10.16							
	Total	**137.16**							
4	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 19 / Item No. 4.48.1/ PWD SR 2013-14**	Cum							
			1	160.00	3.50	0.10	56.00		
			1	80.00	3.20	0.10	25.60		
							81.60	6464.88	**527534.00**
	Basic Rate	5986.00							
	Area Weightage @ 8%	478.88							
	Total	**6464.88**							
5	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **190 / Item No. 22.7/ PWD SR 2013-14**	Sqm							
			1	160.00	3.50		560.00		
			1	80.00	3.20		256.00		
							816.00	91.80	**74909.00**
	Basic Rate	85.00							
	Area Weightage @ 8%	6.80							
	Total	**91.80**							
6	Removing B.S. Slab Drain and stacking **(P. 28 / I. 5.32 PWD SR - 2013-14)**	Sqm							
			2	160.00		1.65	528.00		
							528.00	50.11	**26459.00**
	Basic Rate	46.40							
	Area Weightage @8%	3.71							
	Total	**50.11**							
7	Refixing stone slabs of drains and pointing in CM (1:3) **(P. 28 / I. 5.33 PWD SR - 2013-14)**	Sqm							
			Vide Item No.2*80%				**422.40**	70.04	**29584.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including ing curing etc, complete 7.5 cms thick **Page No. 28 / Item No. 5.31.1/ PWD SR 2013-14**	Sqm							
	Missing length in Ch: 0.00 to 180.00 Mtrs		2	30.00		1.65	99.00		
							99.00	343.44	**34001.00**
	Basic Rate	318.00							
	Area Weightage @ 8%	25.44							
	Total	**343.44**							
9	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.3 / PWD SR 2013-14**	Sqm							
			1	160.00	4.50		720.00		
							720.00	72.79	**52410.00**
	Basic Rate	67.40							
	Area Weightage @ 8%	5.39							
	Total	**72.79**							
10	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P. 170 / I. 20.18) PWD SR - 2013-14.**	Cum							
			1	160.00	4.50	0.20	144.00		
							144.00	1121.04	**161430.00**
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
11	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.175 / I.21.1) PWDSR 2013-14**	Sqm							
			1	160.00	4.50		720.00		

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							720.00	10.53	**7582.00**
	Basic Rate	9.75							
	Area Weightage @ 8%	0.78							
	Total	**10.53**							
2	KSRRB 500-5: providing and applying primer coat from 12.2 to 14.6kg per 10 sqm for surfaces of high porosity over prepared surface of granular base with cut back M.C.-70 or any other bitumen mixed with diesel at 13 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.5 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No. 6				720.00		
							720.00	142.07	**102293.00**
	Basic Rate	131.55							
	Area Weightage @ 8%	10.52							
	Total	**142.07**							
13	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specificationsWith 60/70 grade bitumen using 40-60 HMP, **No. 178 / Item No. 21.20.4 / PWD SR 2013-14.**	Cum							
			1	160.00	4.50	0.025	18.00		
							18.00	9981.36	**179664.00**
	Basic Rate	9242.00							
	Area Weightage @ 8%	739.36							
	Total	**9981.36**							
14	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**309.60**	72.71	**22510.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
5	**Sub Total**								**1782854.00**
6	KRIDL Service Charges and Applicable Taxes @ 11%								**196114.00**
7	For Third Party QC Charges @ 1%								**17829.00**
18	Miscellaneous and other Charges	L/S							**3203.00**
								Total	**2000000.00**

(Rs. Twenty Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
KRIDL

Assistant Engineer
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Techinical Manager
KRIDL

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
B.B.M.P. Bangalore

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

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